

Reduction in anti-PH response

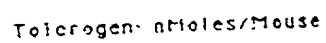


FIGURE 1

005317-0566650

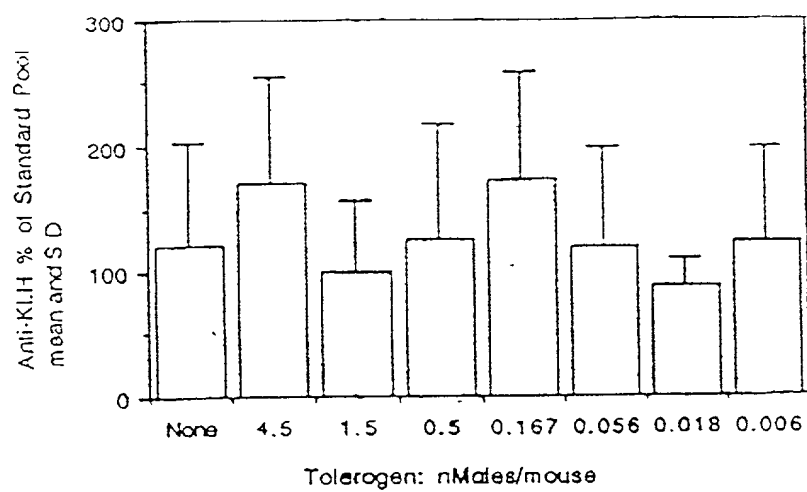


FIGURE 2

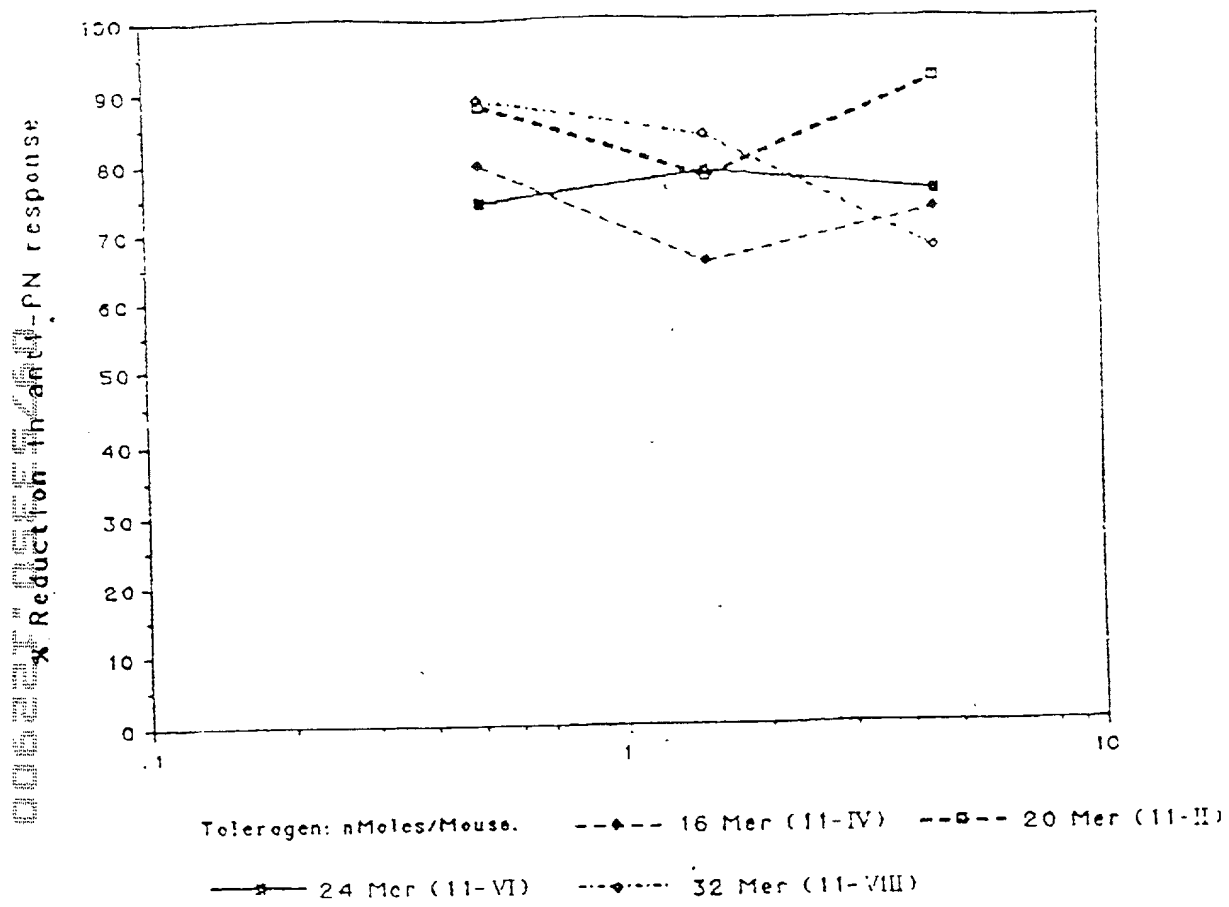


FIGURE 3

006337-05663450

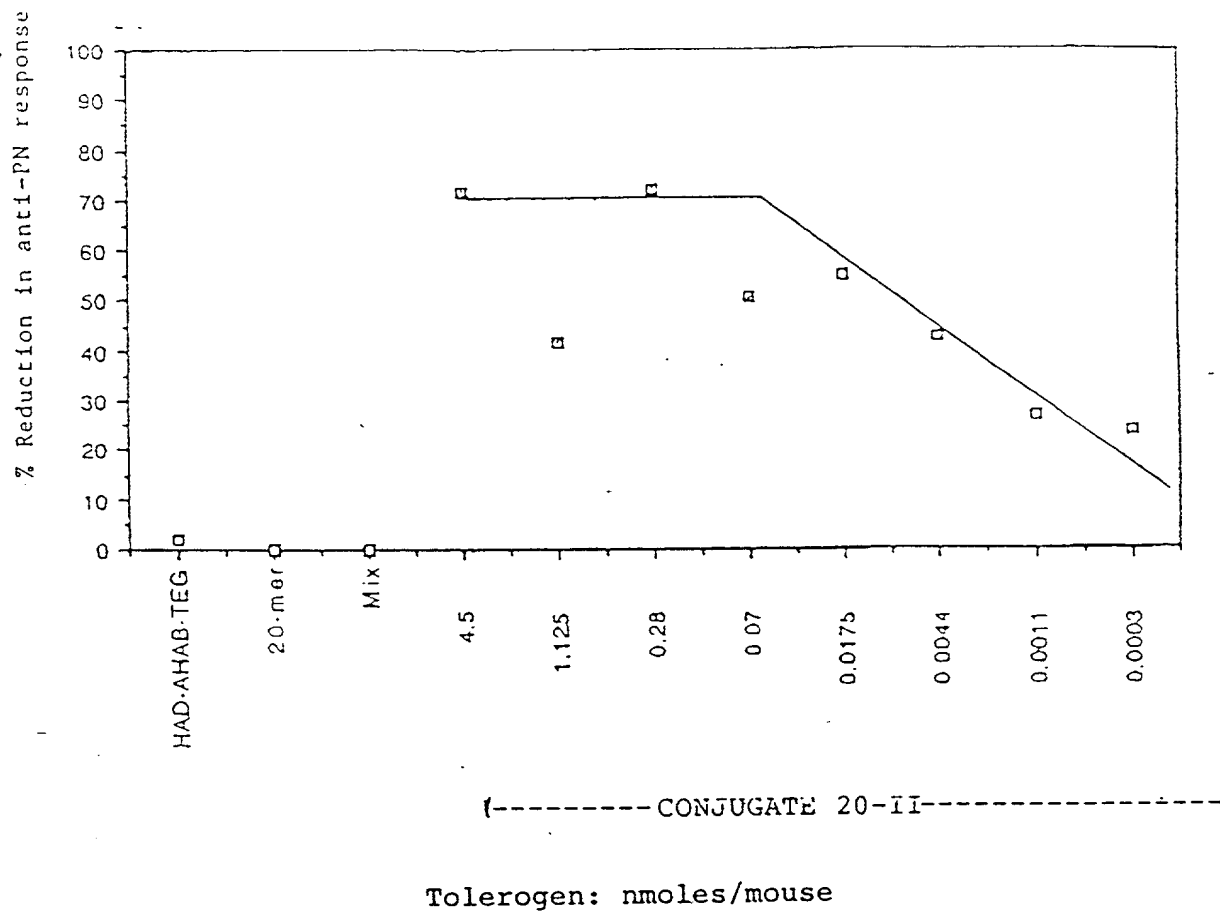


FIGURE 4

005447-00000000

% Reduction in anti-PN response

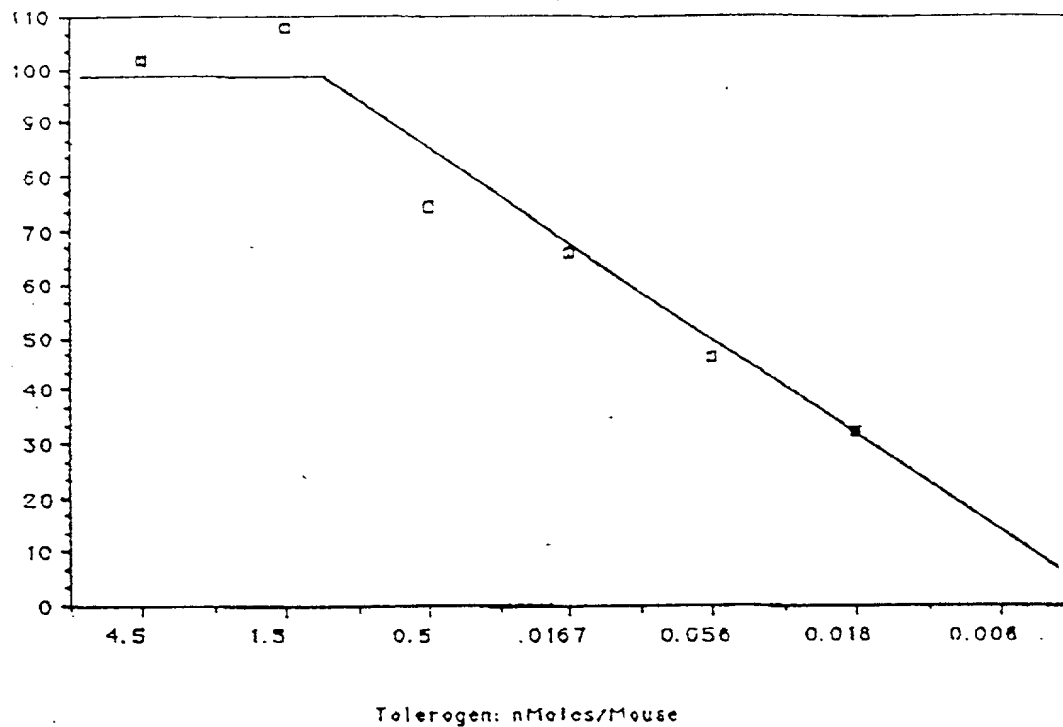
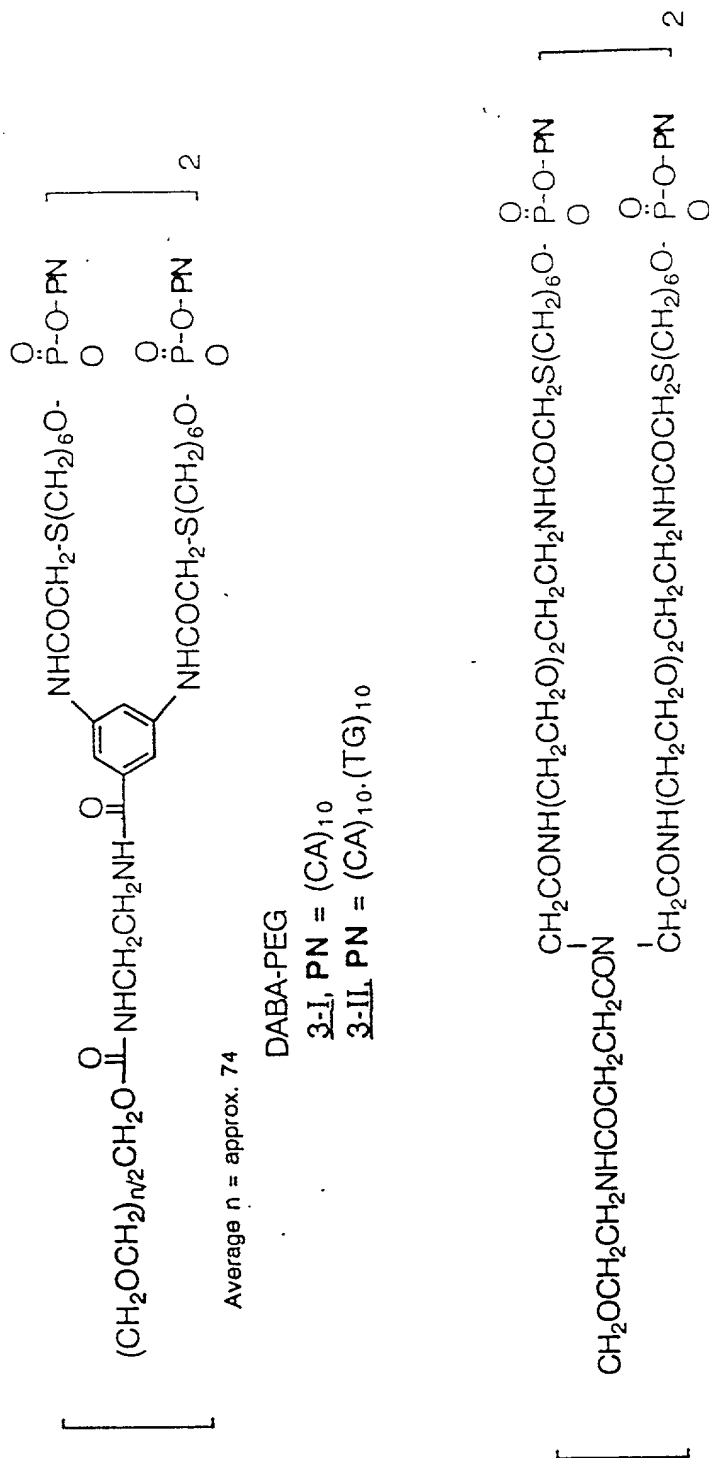


FIGURE 5



BAHA<sub>ox</sub>-EDDA

- $\underline{\text{11-I}}, \text{PN} = (\text{CA})_{10}$   
 $\underline{\text{11-II}}, \text{PN} = (\text{CA})_{10} \cdot (\text{TG})_{10}$   
 $\underline{\text{11-IV}}, \text{PN} = (\text{CA})_8 \cdot (\text{TG})_8$   
 $\underline{\text{11-VI}}, \text{PN} = (\text{CA})_{12} \cdot (\text{TG})_{12}$   
 $\underline{\text{11-VIII}}, \text{PN} = (\text{CA})_{16} \cdot (\text{TG})_{16}$

FIGURE 6A

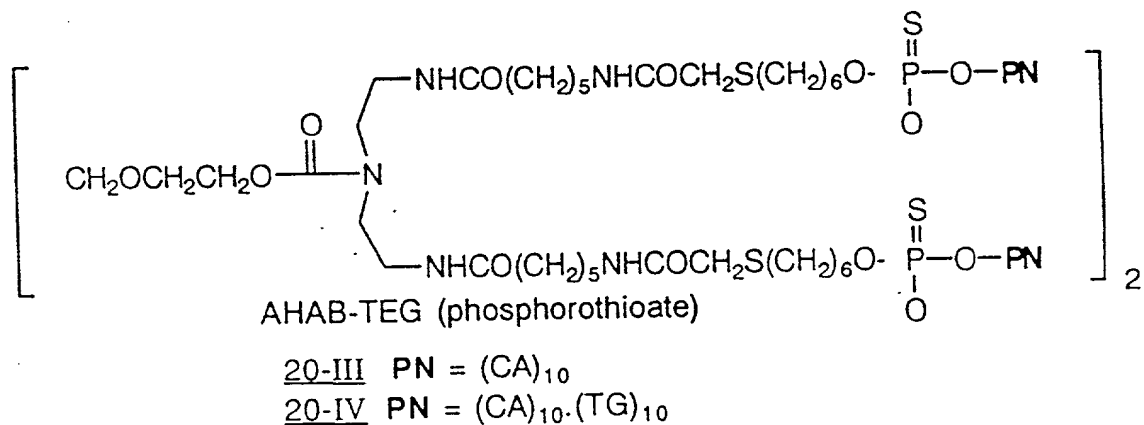
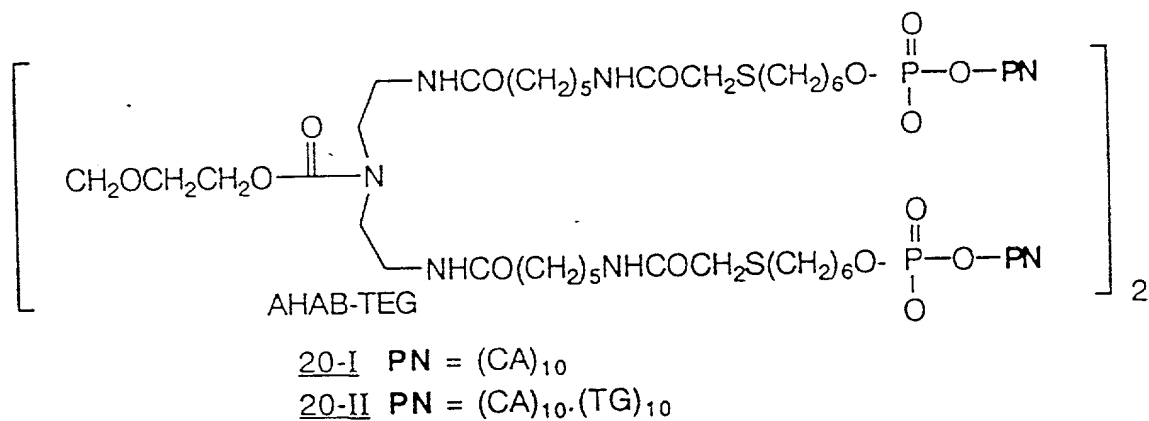
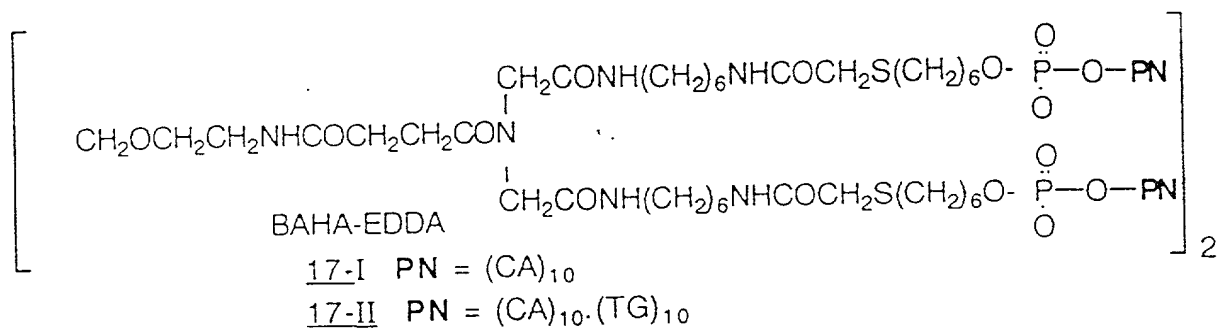


FIGURE 6B

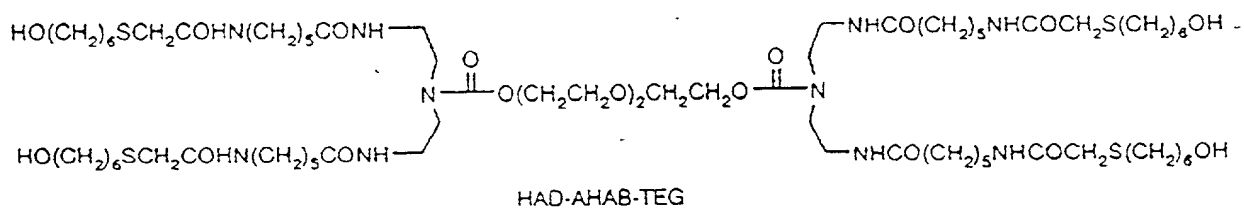
[illegible]

FIGURE 7



005227" 0988960

# T Cell Proliferation Induced by Mellitin Peptides

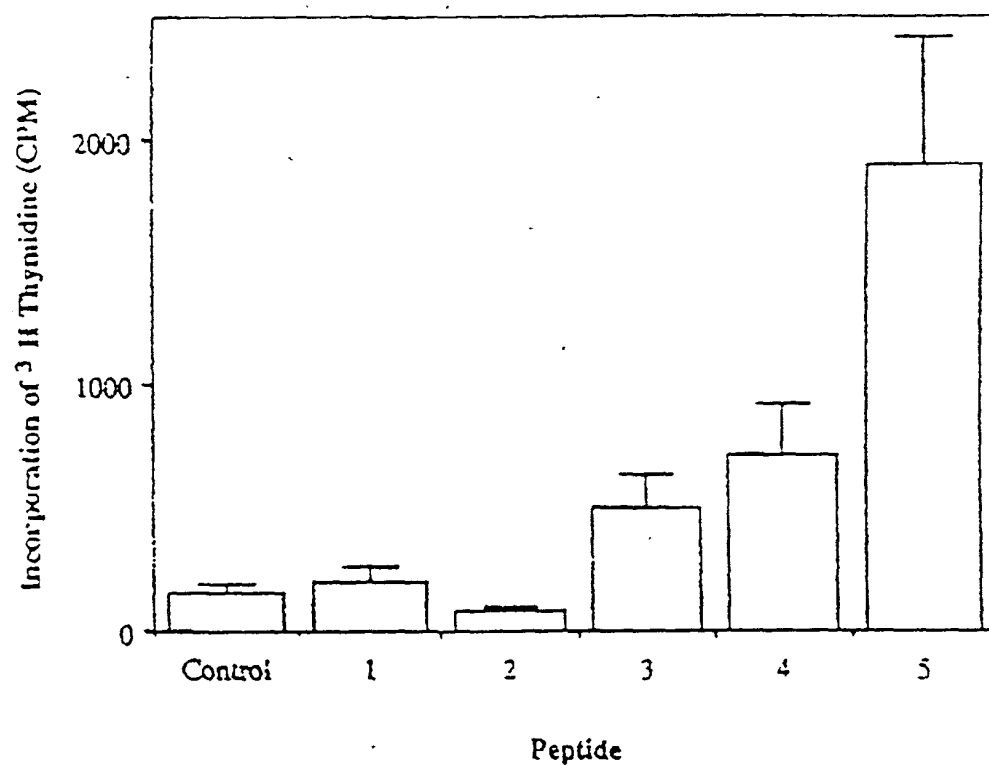


FIGURE 8

O.D. 450 nm 005227 0505460

IgG serum circulating Ab to melittin peptide 2

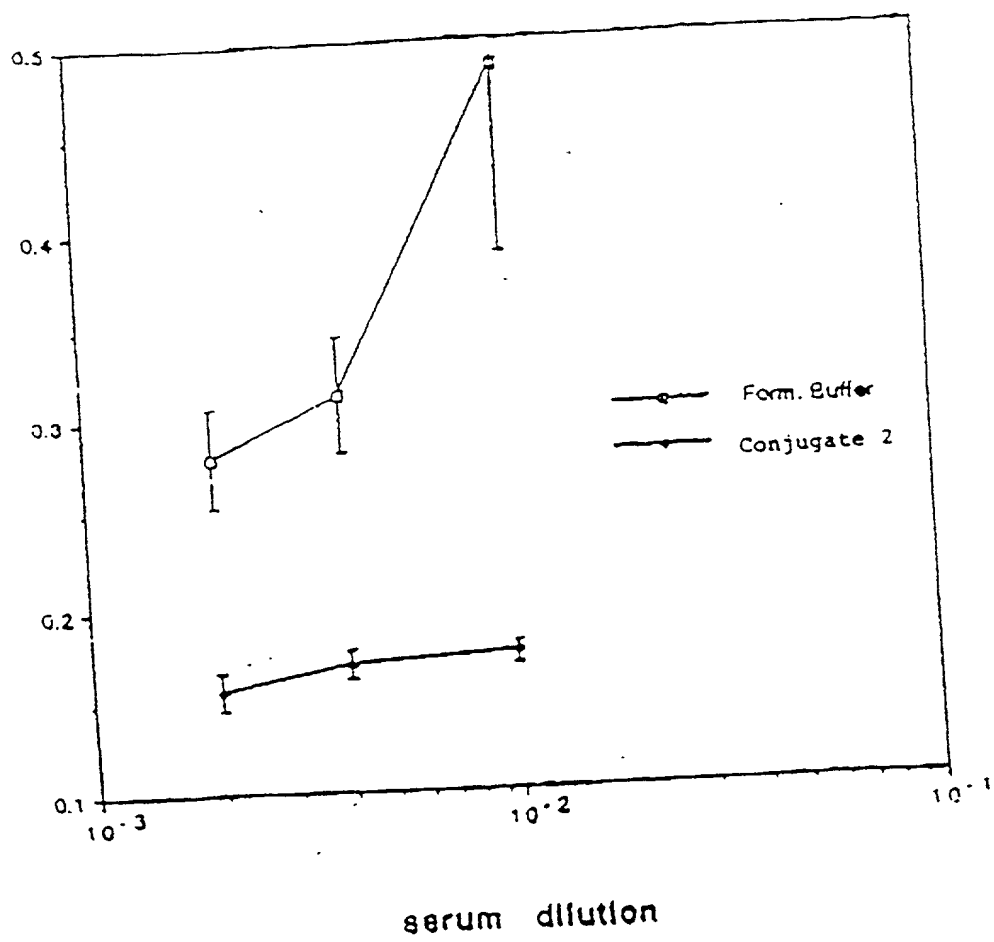


FIGURE 9

005377-0566460

O.D. 450 nm

IgG serum circulating levels to Melittin

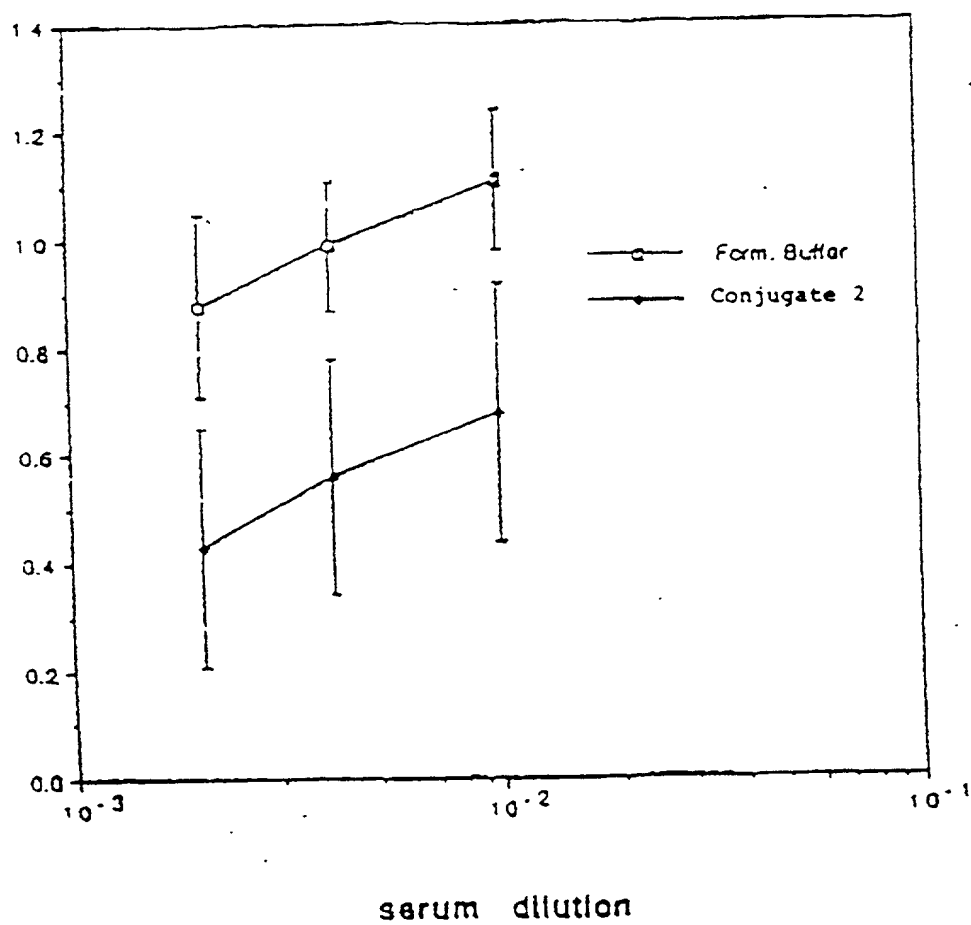


FIGURE 10

006291T 00000000

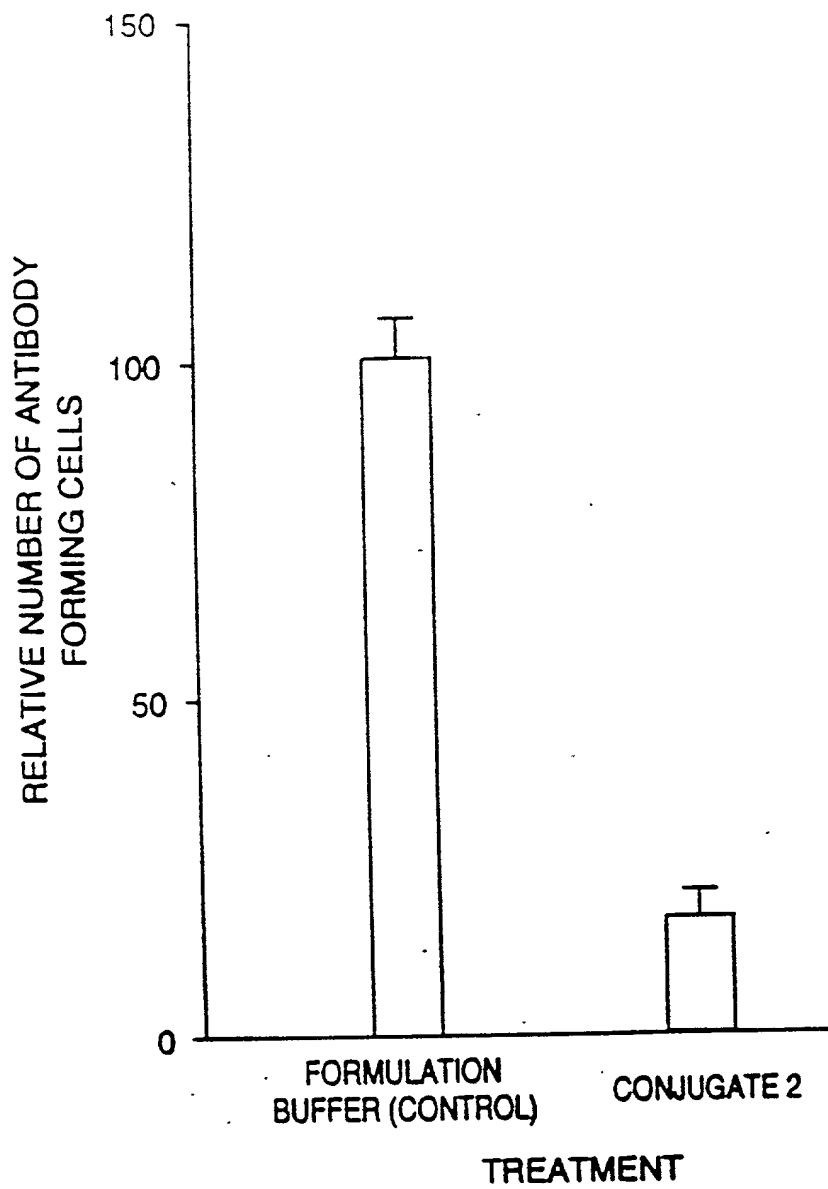


FIGURE 11

O.D. 450 nm

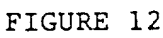
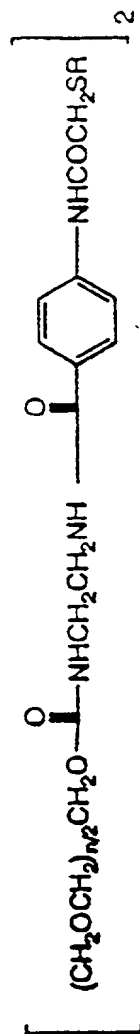


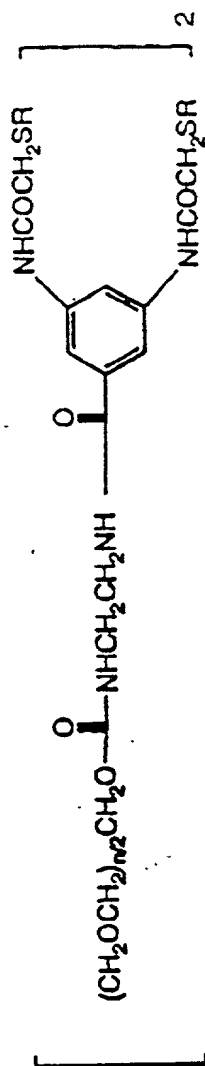
FIGURE 12

# Melittin Peptide Conjugates



Melittin Conjugate # 1, R = H<sub>2</sub>N-Trp-Ile-Lys-Arg-Gln-Gln-Lys-Cys-Gly-CO<sub>2</sub>H

Average n = approx. 74



Melittin Conjugate # 2, R = H<sub>2</sub>N-Cys-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Gly-CO<sub>2</sub>H  
 Melittin Conjugate # 3, R = H<sub>2</sub>N-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Lys-Cys-Gly-CO<sub>2</sub>H  
 Melittin Conjugate # 4, R = H<sub>2</sub>N-Cys-Ile-Ser-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Gly-CO<sub>2</sub>H  
 Melittin Conjugate # 5, R = (H<sub>2</sub>N-Trp-Ile-Lys-Arg-Gln-Gln)<sub>2</sub>-Lys-Cys-Gly-CO<sub>2</sub>H

Melittin peptides attached through sulfur atom on added cysteine, average n = approx. 74

FIGURE 13

# Inhibition of Anti-ds<sup>PN</sup> by LJP- 249 and LJP- 105

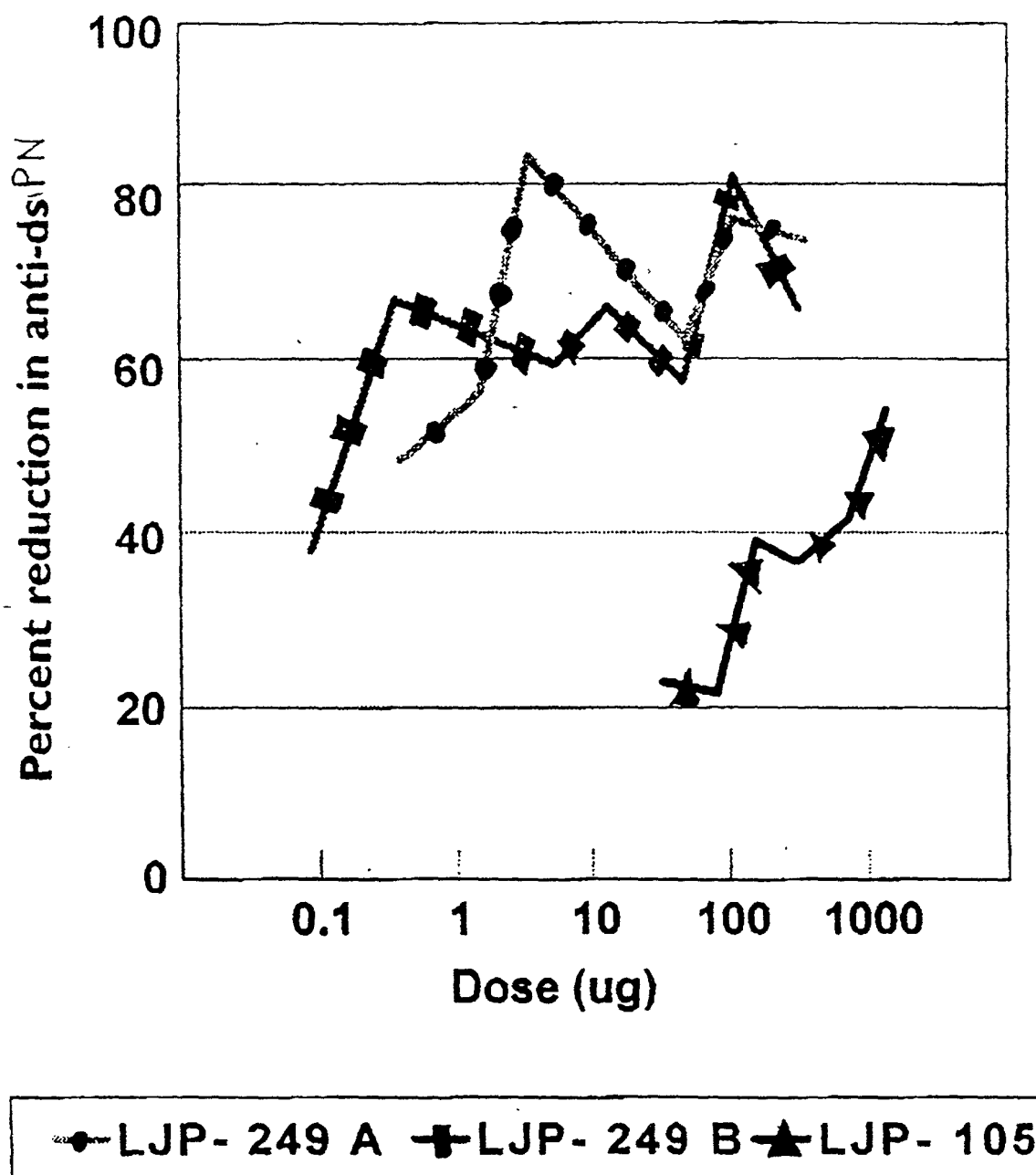


FIGURE 14

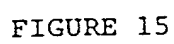
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FIGURE 15